Pediatric Pulmonology

Volume 16, 1993

George Polgar
Editor

Wiley-Liss, Inc.

© 1993 Wiley-Liss, Inc.
605 Third Avenue
New York, NY 10158-0012

PEDIATRIC PULMONOLOGY

Volume 16 • Number 1 • July 1993

ORIGINAL ARTICLES

1 **Acute Lower Respiratory Infection in Argentinian Children: A 40 Month Clinical and Epidemiological Study**
Patricia Murtagh, Cristina Cerqueiro, Alicia Halac, Maria Avila, Horacio Salomón, and Mercedes Weissenbacher

9 **New Associations of Primary Ciliary Dyskinesia Syndrome**
V. Gemou Engesaeth, J.O. Warner, and A. Bush

13 **Relationship Between Exposure to Dust Mite Allergen and Bronchial Response to Exercise in Schoolchildren Sensitized to Dust Mites**
T.H. Frischer, J. Kuehr, R. Meinert, W. Karmaus, and R. Urbanek

19 **Spirometry in the Asthmatic Child: Is FEF_{25-75} a More Sensitive Test Than FEV_1/FVC?**
P. Lebecque, P. Kiakulanda, and A.L. Coates

23 **Lung Function in Children and Adolescents With Tetralogy of Fallot After Intercardiac Repair**
Alois Zapletal, Milan Samanek, Jaroslav Hruda, and Bohuslav Hucin

31 **Gender Related Differences in Airway Tone in Children**
Louis I. Landau, Wayne Morgan, Karen S. McCoy, and Lynn M. Taussig

36 **Dexamethasone Treatment Suppresses Collagen Synthesis in Infants With Bronchopulmonary Dysplasia**
Edward Co, Gopal Chari, Kristine McCulloch, and Dharmapuri Vidyasagar

41 **Pulmonary Sarcoidosis in Children: Serial Evaluation of Bronchoalveolar Lavage Cells During Corticosteroid Treatment**
Katarina Chadelat, Armelle Baculard, Alain Grimfeld, Guy Tournier, Michelle Boule, Liliane Boccon-Gibod, and Annick Clement

48 **Maturation Affects the Maximal Pulmonary Response to Methacholine in Rabbits**
Robert S. Tepper

54 **Airway Responsiveness in Infants: Comparison of Inhaled and Nasally Instilled Methacholine**
Robert S. Tepper and Michael Steffan

59 **Association Between Pulmonary and Gastric Inflammatory Cells on the First Day of Life in Preterm Infants**
Shmuel Arnon, Jonathan Grigg, and Michael Silverman

62 **Fractal and Morphometric Analysis of Lung Structures After Canine Adenovirus-Induced Bronchiolitis in Beagle Puppies**
Mark L. Witten, Joseph L. McKee, R. Clark Lantz, Allison M. Hays, Stuart F. Quan, Richard E. Sobonya, and Richard J. Lemen

CASE REPORT

69 **Unusual Form of Endobronchial Aspergillosis in a Patient With Cystic Fibrosis**
Paul H. Sammut, Susan T. Howard, James Linder, and John L. Colombo

74 SELECTED ABSTRACTS

80 PEDIATRIC PULMONOLOGY NEWS
Computer Database of Pediatric Pulmonary Job Listings

Volume 16 • Number 2 • August 1993

ORIGINAL ARTICLES

81 **Chronic Modifications of Lung and Heart Development in Glucocorticoid-Treated Newborn Rats Exposed to Hyperoxia or Room Air**
D.W. Thibeault, B. Heimes, M. Rezaiekhaligh, and S. Mabry

89 **Chest Wall Motion Before and During Mechanical Ventilation in Children With Neuromuscular Disease**
Carlos E. Diaz, Kiran S. Deoras, and Julian L. Allen

96 **Longitudinal Evaluation of Pulmonary Function in Infants and Very Young Children With Cystic Fibrosis**
Robert S. Tepper, Gary L. Montgomery, Veda Ackerman, and Howard Eigen

101 **Meconium Aspiration Syndrome: Physiological and Inflammatory Changes in a Newborn Piglet Model**
Andrew M. Davey, Jennifer D. Becker, and Jonathan M. Davis

109 **A Simplified Method for Determining the Frequency Response of Pneumotachographs Used in Infants**
P. Vallinis, S. Retfalvi, G.M. Davis, and A.L. Coates

116 **Predictive Value of Measurements of Respiratory Mechanics in Preterm Infants With HMD**
Nicholas J. Freezer and Peter D. Sly

124 **Polysomnography in Obese Children With a History of Sleep-Associated Breathing Disorders**
Jean M. Silvestri, Debra E. Weese-Mayer, Michelle T. Bass, Anna S. Kenny, Susan A. Hauptman, and Sheilah M. Pearsall

130 **Effect of Obesity on Pulmonary Function in Children**
Laura S. Inselman, Ann Milanese, and Antoinette Deurloo

CASE REPORT

138 **Bronchoscopic Diagnosis of an Unusual Presentation of Pulmonary Actinomycosis**
P. Lenoir, L. Gilbert, A. Goossens, D. Tempels, M. Alexander, and I. Dab

141 SELECTED ABSTRACTS

Volume 16 • Number 3 • September 1993

ORIGINAL ARTICLES

147 **The Effects of Bedside Pulmonary Mechanics Testing During Infant Mechanical Ventilation: A Retrospective Analysis**
William C. Rosen, Mark C. Mammel, Joel B. Fisher, J. Michael Coleman, Dennis R. Bing, Keith K. Holloman, and Stephen J. Boros

153 **Continuous End-Tidal CO_2 in Pediatric Bronchoscopy**
Luis M. Franchi, J. Carlos Maggi, and Eliezer Nussbaum

158 **The Effect of Age on Oxygen Desaturation During Histamine Inhalation Challenge in Normal Infants**
Sally Young, Gary C. Geelhoed, Stephen M. Stick, Louis I. Landau, and Peter N. LeSouëf

163 **Continuous Positive Airway Pressure by Nasal Prongs in Bronchiolitis**
Wen-Jue Soong, Betau Hwang, and Ren-Bin Tang

167 **An Isotopic Study of Nasal Mucociliary Transport in Newborns: Preliminary Investigation**
A. Escribano, M. Armengot, V. Marco, J. Basterra, and J. Brines

170 **Resistive and Elastic Unloading to Assist Spontaneous Breathing Does Not Change Functional Residual Capacity**
Andreas Schulze, Peter Schaller, Andreas Töpfer, and Haresh Kirpalani

177 **Lung Function and Bronchial Challenges in Infants: Repeatability of Histamine and Comparison With Methacholine Challenges**
S.M. Stick, D.J. Turner, and Peter N. LeSouëf

STATE OF THE ART REVIEW

184 **Chronic Interstitial Lung Disease in Children**
Leland L. Fan and Claire Langston

DIAGNOSTIC AND THERAPEUTIC REPORT

197 **Comparison of Helium Dilution and Nitrogen Washout Measurements of Functional Residual Capacity in Premature Infants**
B. Yuksel, A. Greenough, V. Chan, and R. Ross Russell

CASE REPORT

201 **Neonatal Pulmonary Vascular and Parenchymal Changes Associated With Arteriovenous Malformation**
Howard W. Kilbride, R. Gowdamaran, and Donald W. Thibeault

207 BOOK REVIEW

208 SELECTED ABSTRACTS

214 PEDIATRIC PULMONOLOGY NEWS

Volume 16 • Number 4 • October 1993

ORIGINAL ARTICLES

215 **Flexible Fiberoptic Bronchoscopy in Children on Extracorporeal Membrane Oxygenation**
Karl H. Karlson, Jr., Curtis B. Pickert, Stephen M. Schexnayder, and Mark J. Heulitt

219 **International Comparison of Asthma Prevalence in Children: Australia, Switzerland, Chile**
Colin F. Robertson, Janet Bishop, Felix H. Sennhauser, and Javier Mallol

227 **Predictive Value of Pulmonary Function Testing During Pulmonary Exacerbations in Cystic Fibrosis**
Samuel M. Rosenberg and Craig M. Schramm

236 **Bronchial Responsiveness to Inhaled Metabisulfite in Asthmatic Children Increases With Age**
L.E.G. Vandenbossche, W.C.J. Hop, and J.C. de Jongste

243 **Nedocromil Sodium vs. Sodium Cromoglycate Pressurized Aerosol in the Prevention of Bronchoconstriction Induced by Ultrasonic Nebulized Distilled Water in Asthmatic Children**
E. Spezia, G. Del Col, C. Richelli, L. Sette, and A.L. Boner

DIAGNOSTIC AND THERAPEUTIC METHODS

248 **Referencing Lung Volume for Measurements of Respiratory System Compliance in Infants**
J.P. Mortola, G. Hemmings, T. Matsuoka, C. Saiki, and G. Fox

254 **Measurement of Breath Amplitudes: Comparison of Three Noninvasive Respiratory Monitors to Integrated Pneumotachograph**
Jose A. Adams, Ignacio A. Zabaleta, David Stroh, and Marvin A. Sackner

CASE REPORTS

259 **Real Time Laryngoscopy With Olfactory Challenge for Diagnosis of Psychogenic Stridor**
Stuart M. Tomares, Terence R. Flotte, David E. Tunkel, Maryland Pao, and Gerald M. Loughlin

263 **Familial Congenital Bronchiectasis: Williams–Campbell Syndrome**
V. Faye Jones, Nemr S. Eid, Sofia M. Franco, J. Thomas Badgett, and John J. Buchino

268 SELECTED ABSTRACTS

273 ADDENDUM

Volume 16 • Number 5 • November 1993

ORIGINAL ARTICLES

275 **Parental Childhood Respiratory Illness and Respiratory Illness in Their Infants**
Anthony E. Camilli, Catharine J. Holberg, Anne L. Wright, Lynn M. Taussig, and Group Health Medical Associates

281 **Effects of Sidestream Smoke Exposure and Age on Pulmonary Function and Airway Reactivity in Developing Rats**
Jesse P. Joad, Kent E. Pinkerton, and John M. Bric

289 **Regional Distribution of Myosin Heavy Chain Isoforms in Rib Cage Muscles as a Function of Postnatal Development**
Roger L. Vazquez, Molly Daood, and Jon F. Watchko

297 **Low-Frequency vs. High-Frequency Respiratory Mechanics After Methacholine Challenge in Artificially Ventilated Rabbits**
A. Belaguid, F. Marchal, H. Mazurek, J.M. Hascoet, and R. Peslin

303 **Effect of Amrinone During Group B *Streptococcus*–Induced Pulmonary Hypertension in Piglets**
James I. Berger, Ronald L. Gibson, William R. Clarke, Thomas A. Standaert, Gregory J. Redding, William R. Henderson, Jr., and William E. Truog

311 **Comparison of Efficacy of Salbutamol and Sodium Cromoglycate in the Prevention of Ticarcillin-Induced Bronchoconstriction**
Hock Leng Chua, Sharyn L. Walker, Peter N. LeSouëf, and Peter D. Sly

DIAGNOSTIC AND THERAPEUTIC METHODS

316 **The Effect of Instrumental Dead Space on Measurement of Breathing Pattern and Pulmonary Mechanics in the Newborn**
Michael J. Marsh, Dorothea Ingram, and Anthony D. Milner

CASE REPORTS

323 **Bronchogenic Cyst Associated With Left Lower Lobe Bronchiectasis**
A. Avital, R. Udassin, J. Bar-Ziv, J. Schachter, S. Godfrey, and C. Springer

326 **Munchausen's Syndrome Presenting as Cystic Fibrosis With Hemoptysis**
Lee S. Rusakow, William M. Gershan, Marita Bulto, and Nathan M. Szajnberg

CORRESPONDENCE

330 **Call for Abstracts**

331 SELECTED ABSTRACTS

Volume 16 • Number 6 • December 1993

PERSPECTIVES

335 **On Contrasting Clinical and Statistical Significance**
George Polgar

ORIGINAL ARTICLES

336 **Contrasting Clinical and Statistical Significance Within the Research Setting**
Bruce R. Lindgren, Catherine L. Wielinski, Stanley M. Finkelstein, and Warren J. Warwick

341 **Bone Turnover in Asthmatic Children Treated With Oral Prednisolone or Inhaled Budesonide**
Ole D. Wolthers, Bente Juel Riis, and Søren Pedersen

347 **Evolution of Pulmonary Function During an Acute Exacerbation in Hospitalized Patients With Cystic Fibrosis**
David Gozal, Sandra L. Bailey, and Thomas G. Keens

354 **Cardiorespiratory Effects of Coventional and High Frequency Ventilation in Rabbits With Bilateral Pneumothoraces and Surfactant Depleted Lungs**
Chen Wang, Margaret E. Nicol, Mihir K. Chakrabarti, Anita Holdcroft, and James G. Whitwam

358 **Neonatal Meconium Aspiration Syndrome and Respiratory Morbidity During Infancy**
B. Yuksel, A. Greenough, and H.R. Gamsu

362 **Severe Hypoxemia in Children With Upper Airway Obstruction During Sleep Does Not Lead to Significant Changes in Heart Rate**
Lynn A. D'Andrea, Carol L. Rosen, and Gabriel G. Haddad

CASE REPORTS

370 **Bronchial Mucous Gland Adenoma Presenting as Bronchogenic Cyst**
Paulo J. Dickstein, Sandra M.M. Amaral, Angela M.L.F. Silva, Pedro A. Daltro, Adelino J. Ferreira, and Antonio Aiex

375 **"Bronchitis" Obliterans and Prolonged Transient Hypogammaglobulinemia in a Child**
Elizabeth J. Perlman, Howard M. Lederman, George A. Taylor, Mary Beth Fasano, Gerald M. Loughlin, and Pamela L. Zeitlin

380 BOOK REVIEWS

CONFERENCE REPORT

382 **Twelfth Conference on Apnea of Infancy, Annenberg Center at Eisenhower, Rancho Mirage, California, January 20–22, 1994**

397 **Author Index to Volume 16**

399 **Subject Index to Volume 16**

401 **Acknowledgments to Reviewers**